Defense Information Systems Agency

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Defense Spectrum Organization Vision

DoD Spectrum Workshop 2009

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Disclaimer

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Overview

- Challenges to military use of spectrum are greater than ever before
- Urgency to change => spectrum management transformation
- DSO priorities:
  - Warfighter's ability to maximize use of spectrum resource
  - Net-centric spectrum data strategy, standard, and accuracy
  - Next generation of spectrum management capabilities/tools
  - Spectrum requirements and use
  - Emerging technologies; dynamic spectrum access
  - National and international regulatory engagement
  - Legislation and congressional engagement

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DSO Vision & Mission

Vision

Enabling information dominance through effective spectrum operations

Mission

DSO provides strategic electromagnetic spectrum planning, direct COCOM/JTF support and enterprise capabilities and services to continuously enable effective global spectrum operations for joint warfighters, DoD Components, National level leaders and coalition partners.

DSO Organization

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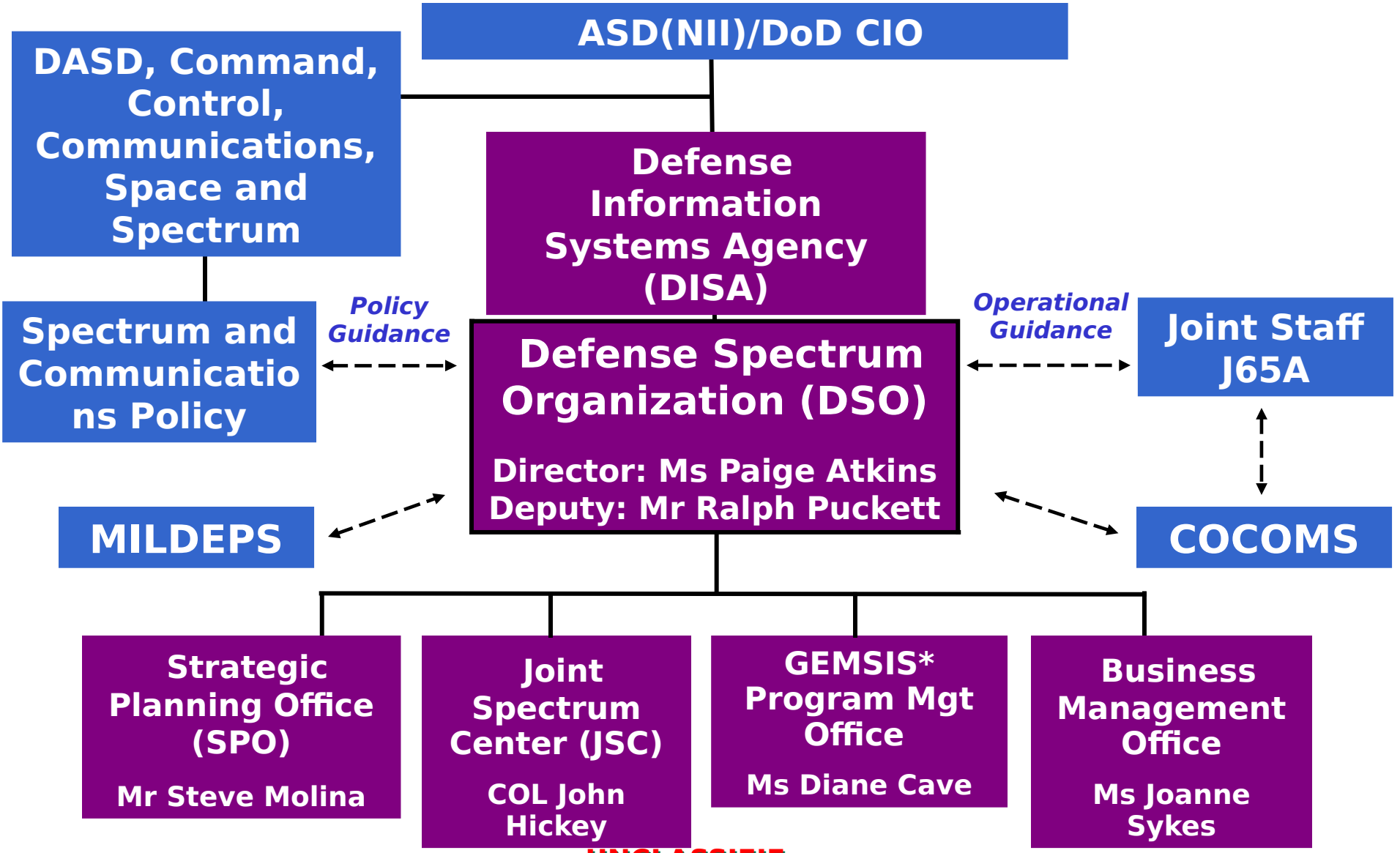

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* Global Electromagnetic Spectrum Information System

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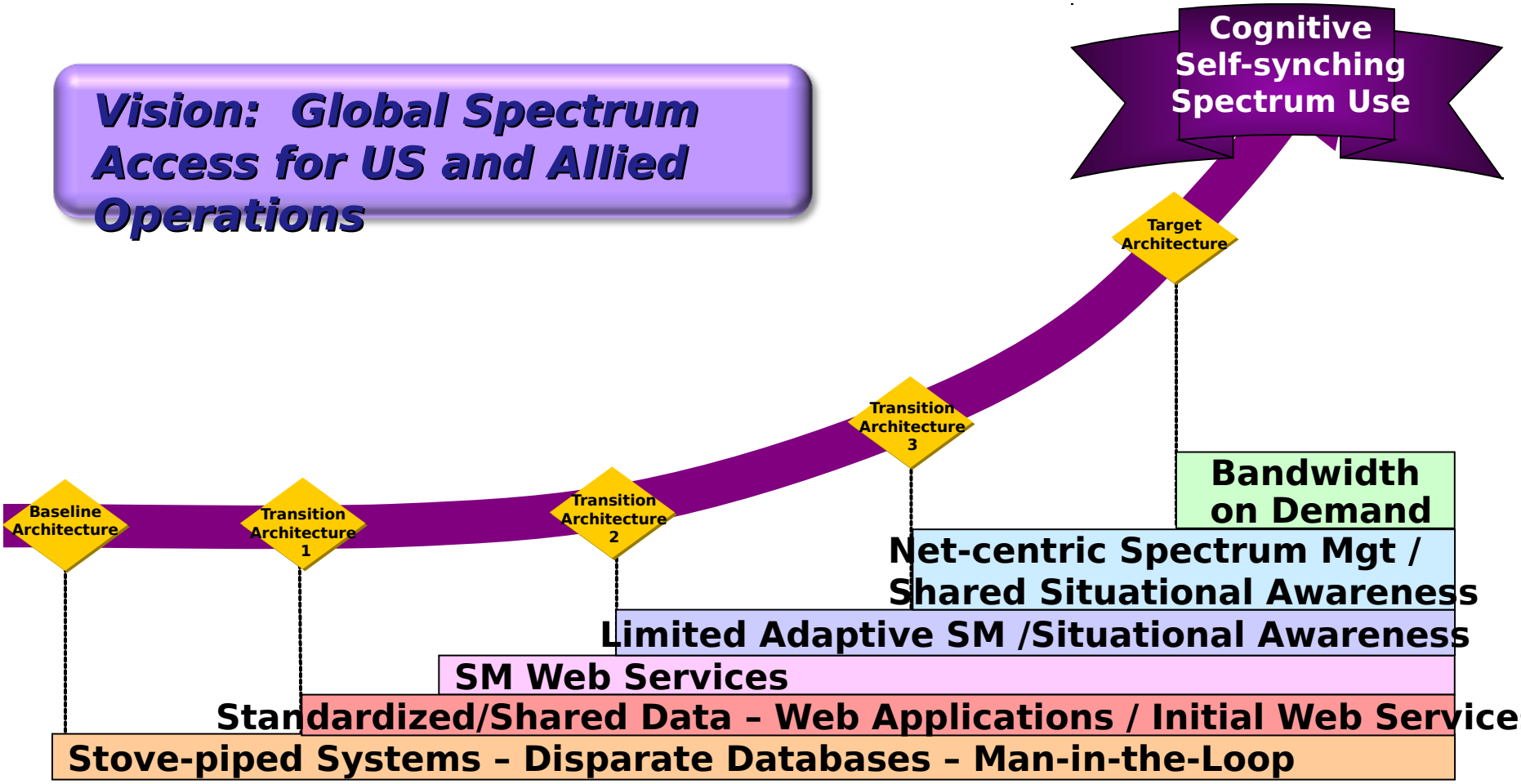
Spectrum Management Transformation*

Vision: Global Spectrum Access for US and Allied Operations


Cognitive Self-synching Spectrum Use
Target Architecture
Transition Architecture 3
Transition Architecture 2
Transition Architecture 1
Baseline Architecture
Bandwidth on Demand
Net-centric Spectrum Mgt / Shared Situational Awareness
Limited Adaptive SM /Situational Awareness
SM Web Services
Standardized/Shared Data – Web Applications / Initial Web Services
Stove-piped Systems – Disparate Databases – Man-in-the-Loop

*Defense Spectrum Management Architecture

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DSO Transformational Mission

Serve:

The DoD Operations Community

…with timely access to accurate and efficient…

Spectrum Management and Engineering Tools & Services

…that employ high quality, relevant…

Spectrum Management Data

…to ensure operational effectiveness in an increasingly congested electromagnetic environment.

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DSO Campaign Plan

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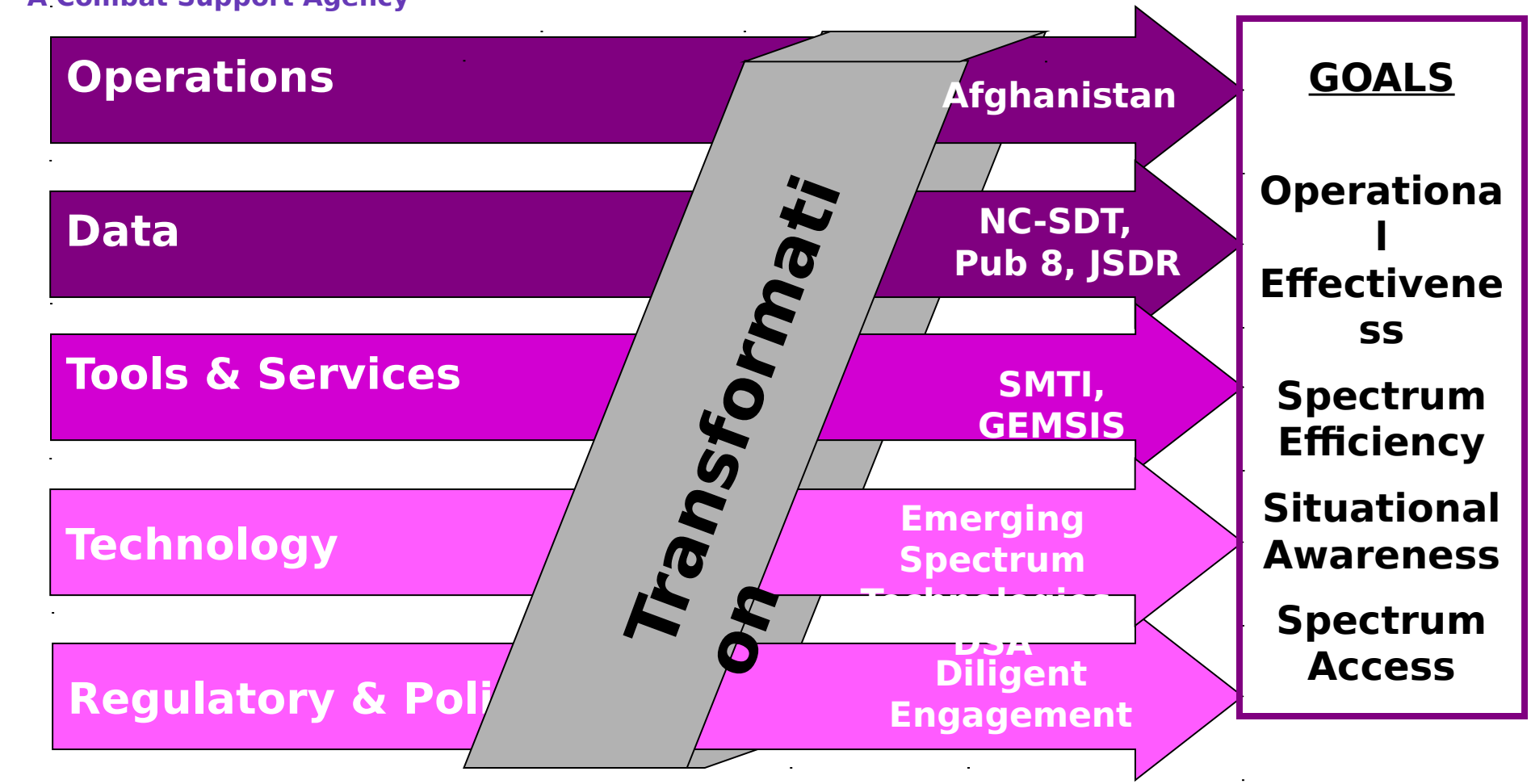

NC-SDT- Net-Centric Spectrum Data Transformation
JSDR- Joint Spectrum Data Repository
Pub 8 - Joint Publication number 8
SMTI – Spectrum Management Transition Initiative
GEMSIS – Global EM Spectrum Information System

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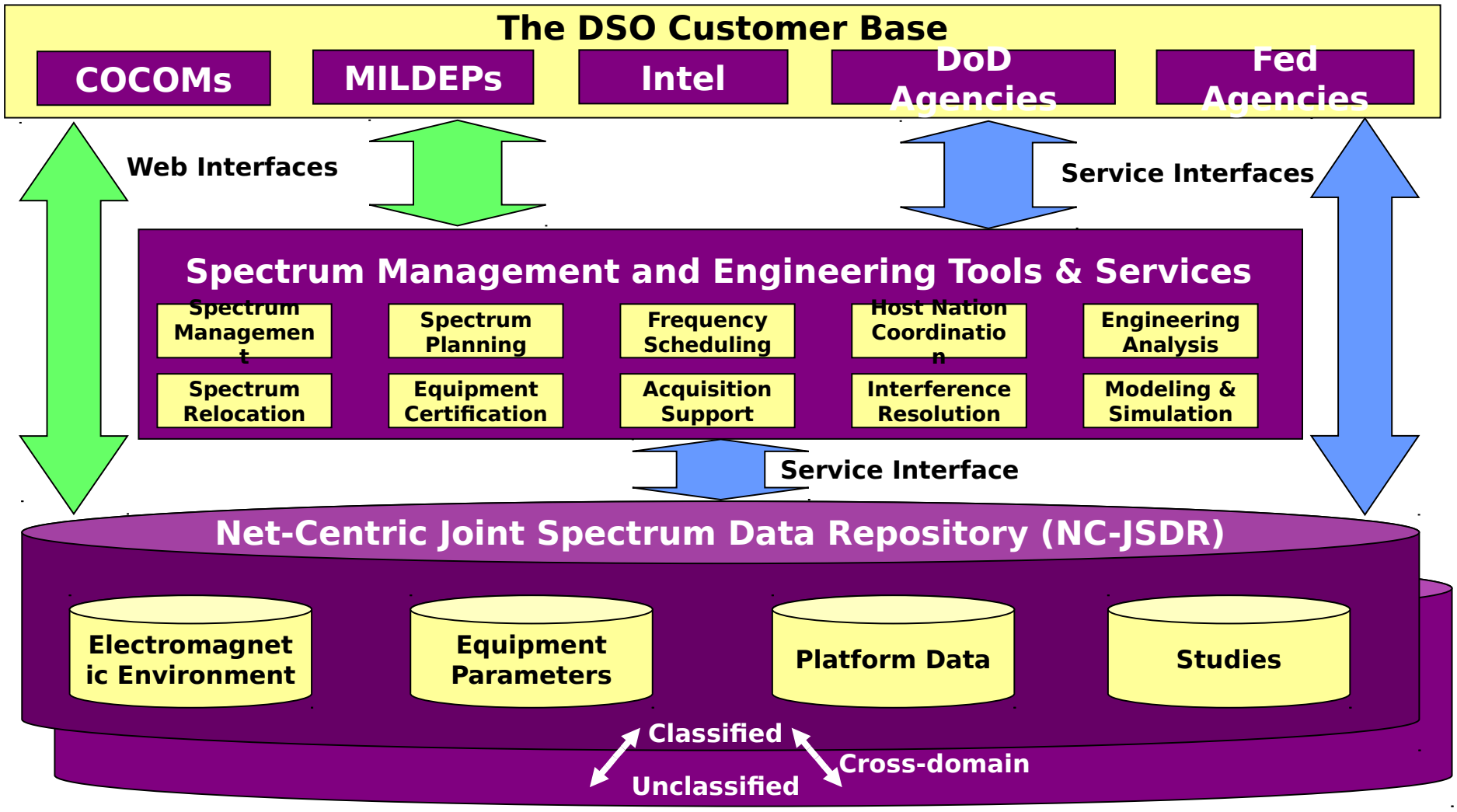
DSO Net-Centric Vision



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Summary

- DoD is facing increasing complexity and mounting pressures to provide needed spectrum for the warfighter
- DSO is responding through
  - Stepped-up operational support
  - Transformation of its data management, tools and services
  - Engagement in national and international policy forums
- Development of new technologies will play a key role in future spectrum access for the warfighter
- Together, DSO and the spectrum community will turn this complexity and unpredictability into efficient, flexible, adaptable and effective spectrum operations

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